

Sparkle Power Inc. A Leading Power Supply Manufacturer Website: www.sparklepower.com

# FSP500-60EGA

(80PLUS Gold, RoHS Compliant) 500 Watts ATX12V 2.3 Switching Power Supply Meet 2010 ErP

## **Features**

- Complied with ATX12V 2.3 standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1, TUV EN60950-1,CB 60950-1 report, FCC,EMC.

#### Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input Frequency: 47 ~ 63Hz Input Current: Max 6A @ 115Vac, 3A @ 230Vac Inrush Current: No damage.

#### **Output Characteristics**

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.1A	12A	24/3A	±5%	±1%	50mV P-P
+5V	0.2A	12A	11/24A	±5%	±1%	50mV P-P
+12V1	0.1A	8A	18A	±5%	±1%	120mV P-P
+12V2	0A	8A	18A	±5%	±1%	120mV P-P
-12V	0A	0.15A	0.3A	±10%	± <b>2%</b>	200mV P-P
+5Vsb	<b>0</b> A	1.5A	3.5A	±5%	±1%	50mV P-P

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### Main Office

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## **Specification**

- **Temperature Range:** Operating: +0°C ~ +40°C on full load Storage & Shipping: -40°C ~ +70°C
- Humidity: 5-85% on operating, 5-95% on storage
- **Dielectric Withstand:** Primary to frame ground 1800V<sub>AC</sub> for 1 second
- Efficiency: 87% minimum, typical up to 90%
- **Rise time:** Less than 20ms
- Hold-up Time: 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- Leakage Current: Less than 3.5mA at 264Vac, 50Hz
- MTBF: 100,000 hours on maximum load at +25°C
- Dimensions (LxWxH):140x150x86.0mm / 5.5x5.9x3.4inch

\*+3.3V & +5V total output does not exceed 130W when +5V is loaded to 24A, then +3.3V maximum load is 3A when +3.3V is loaded to 24A, then +5V maximum load is 10A \*+12V1 & +12V2 total output does not exceed 432W(36A)

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